

5716 Search Repol

STIC Database Tracking Number: 114718

TO: Elaine Gort

Location: cpk5 7B21

Art Unit: 3627

Monday, February 23, 2004

Case Serial Number: 09599712

From: Sylvia Keys Location: EIC 3600

PK5-Suite 804 Phone: 305-5782

sylvia.keys@uspto.gov

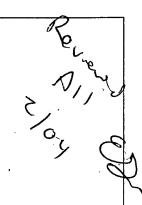
Search Notes

Dear Examiner Gort,

Please read through the results.

If you have any questions, please do not hesitate to contact me.

Sylvia





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Questions, about the scope or the results of the search? Contact the EIC searcher or contact:

Karen Lehman, EIC 3600 Team Leader 306-5783, PK5- Suite 804

Voluntary Results Feedback Form

>	I am an examiner in Workgroup: Example: 3620 (optional)								
>	Relevant prior art found, search results used as follows:								
	☐ 102 rejection								
	☐ 103 rejection								
	Cited as being of interest.								
	Helped examiner better understand the invention.								
	Helped examiner better understand the state of the art in their technology								
	Types of relevant prior art found:								
	☐ Foreign Patent(s)								
	Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)								
>	Relevant prior art not found:								
	Results verified the lack of relevant prior art (helped determine patentability).								
	Results were not useful in determining patentability or understanding the invention.								
Со	mments:								

Drop off or send completed forms to ElG3600 PK5 Suite 804



EIC2100 COMMERCIAL DATABASE SÈARCH REQUEST

Staff Use Only

Complete	705 Temp	late Search	Request	ed
	• 1	· -	1	•

This search should focus on: (Also include keywords or synonyms) Above		
Business Methods Case: 705/ 413 Write in 705 subclass(es) to search required files for 705 cases or cases cross referenced in 705. Requester's Full Name: Elaine Gort	RUSH - SPE signature required: <u>Michael luff</u> for 30.	Access DB# //47/8
Art Unit: 3627 Phone Number 703/308-6391 Serial Number: 969977. Bldg & Room #: PK5 7B21 Results Format Preferred: PAPER If more than one search is submitted, please prioritize searches in order of need. Provide the PALM Bib page or the following: Title of Invention: see attached bib sheet Inventors (provide full names): See 6. h She of Earliest Priority Filing Date: 6/22/00 Requested attachments: • If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc, if known. • Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) Inot all of the claims]. See particularly claims 13 The claimed or apparent novelty of the invention is: A first dispersion system where a first disperse has a sensor that detects and identify a vehicle pd fills the vehicle, but does not print oil a receipt. A separately located secret faccounty statement that senses a lide the unit of the claim of the print oil a receipt. A separately located secret faccounty statement (such as a receipt). This search should focus on: (Also include keywords or synonyms)	Business Methods Case: 705/ 913	
Bldg & Room #: PK5 7B21 Results Format Preferred: PAPER If more than one search is submitted, please prioritize searches in order of need. Provide the PALM Bib page or the following: Title of Invention: see attached bib sheet Inventors (provide full names): See 6. h She of Earliest Priority Filing Date: 6/22/00 Requested attachments: • If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc., if known. • Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) [not all of the claims]. See particularly claims 13 The claimed or apparent novelty of the invention is: A first dispersion system where a first dispersion has a sensor, that detects and identically a chickery of the claim of	Requester's Full Name: Elaine Gort Examiner #: 77459 Date: 2/18/04	
Frovide the PALM Bib page or the following: Title of Invention: see attached bib sheet Inventors (provide full names): See 6. h Sheed Earliest Priority Filing Date: 6/22/00 Requested attachments: • If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc, if known. • Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) [not all of the claims]. See particularly claims 13 The claimed or apparent novelty of the invention is: A feel dispersion 2032 on where a feel dispersion has a sensor that detects and identify a vehicle and full state vehicle but does not print out a receipt. A separately located secrept/accounty state that senses a lids the vehicle and provides accounting. This search should focus on: (Also include keywords or synonyms)	Art Unit: 3627 Phone Number 703/308-6391 Serial Number: 9 (599 71	<u> </u>
Title of Invention: see attached bib sheet Inventors (provide full names): Sec 6.h Sheed Earliest Priority Filing Date: 6/22/00 Requested attachments: • If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc., if known. • Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) [not all of the claims]. See particularly claims 13 The claimed or apparent novelty of the invention is: A first dispersion system where a first dispersion has a sensor that detects and identify a vehicle and fills the vehicle, but does not print will a receipt. A separately located are receipt. A separately located are receipt. A separately located are received as a first sensor that senses a lidit the nucleus and provides accounting. This search should focus on: (Also include keywords or synonyms)	-	need.
Requested attachments: • If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc., if known. • Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) [not all of the claims]. See particularly claims 13 The claimed or apparent novelty of the invention is: A feet dispersing system where a feet disperser has a sensor that detects and identify a vehicle put fills the vehicle, but does not print out a receipt. A separately located secretly accounting statement that senses + 1 dis the vehicle and provides accounting accounting. This search should focus on: (Also include keywords or synonyms) Above		
Requested attachments: • If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc, if known. • Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) [not all of the claims]. See particularly claims 13 The claimed or apparent novelty of the invention is: A fuel dispersion system where a fuel disperse, has a senso, that detects and identify a vehicle and fills the vehicle, but does not print out a receipt. A separately located seccept/accounty statement that senses a lids the vehicle and provides accounting internation (such as a receipt). This search should focus on: (Also include keywords or synonyms)	Inventors (provide full names): Sec 6.6 Sheed	
• If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc., if known. • Please attach copies of the parts of this case that help explain or are most pertinent to this search. Examples are: abstract, background, summary, claim(s) [not all of the claims]. See particularly claims 13 The claimed or apparent novelty of the invention is: A Evel dispersion and any other at Evel disperser has a sensor that detects and identify a vehicle and Fills the vehicle, but does not print out a recept. A separately located secretary accounting statum that senses a lidis the vehicle and provides accounting internation (such as a receipt). This search should focus on: (Also include keywords or synonyms) Above	Earliest Priority Filing Date: らしてこしの	
A five I dispersing system where a five I disperser has a sensor that detects and identify a vehicle and fills the vehicle, but does not print out a reciept. A separately located secrept/accounting station that senses + I dis the vehicle and provides accounting intermation (such as a reciept). This search should focus on: (Also include keywords or synonyms) Above	 Please attach copies of the parts of this case that help explain or are most pertinent to abstract, background, summary, claim(s) [not all of the claims]. 	
a vehicle and fills the vehicle, but does not print out a recept. A separately located secrept/accounting station that senses + I dis the vehicle and provides accounting intermation (such as a recept). This search should focus on: (Also include keywords or synonyms) Above	• • • • • • • • • • • • • • • • • • • •	
This search should focus on: (Also include keywords or synonyms) Above	A fuel dispersing system where a fuel disperser has a sensor	that detects and identifi
This search should focus on: (Also include keywords or synonyms) Above	a vehicle and fills the vehicle, but does not print out a reciept,	A separately located
This search should focus on: (Also include keywords or synonyms) Above	recept/accounting station that serses + 1 dis the vehicle and	provides accounting
(Also include keywords or synonyms) Above	intermation (such as a recept),	
	Above	
	Special Instructions or Other Comments	•••••••

Thanks Eloie Mik

File 344: Chinese Patents Abs Aug 1985-2003/Nov (c) 2003 European Patent Office File 347: JAPIO Oct 1976-2003/Oct (Updated 040202) (c) 2004 JPO & JAPIO File 350:Derwent WPIX 1963-2004/UD,UM &UP=200412 (c) 2004 Thomson Derwent File 348:EUROPEAN PATENTS 1978-2004/Feb W03 (c) 2004 European Patent Office File 349:PCT FULLTEXT 1979-2002/UB=20040219,UT=20040212 (c) 2004 WIPO/Univentio ?ds Set Items Description S1 54 AU='DICKSON T':AU='DICKSON TIMOTHY R' S2 13 S1 AND FUEL? S3 12 S2 AND DISPENS?

3/3,K/1 (Item 1 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 015593876 **Image available** WPI Acc No: 2003-656031/200362 Related WPI Acc No: 1999-253467; 1999-255039; 1999-263672; 1999-263673; 1999-277052; 2000-564401; 2003-208812 XRPX Acc No: N03-522471 In-vehicle ordering system for use in fuel dispensing station, has user interface located within vehicle cabin to place order to quick serve restaurant Patent Assignee: GILBARCO INC (GILB-N) Inventor: DICKSON T E ; MARION K O Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Applicat No Kind Date Kind Date Week US 6574603 B1 20030603 US 9760066 200362 B P 19970926 US 9834969 Α 19980304 US 98119905 Α 19980721 Priority Applications (No Type Date): US 9760066 P 19970926; US 9834969 A 19980304; US 98119905 A 19980721 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 6574603 B1 46 G06K-007/00 Provisional application US 9760066 CIP of application US 9834969 In-vehicle ordering system for use in fuel dispensing station, has user interface located within vehicle cabin to place order to quick serve restaurant Inventor: DICKSON T E ... Abstract (Basic): For placing order to quick serve restaurant associated with fuel dispensing stations... ...allows all the occupants of the vehicles to place orders, without increasing congestion at the fuel dispenser The figure shows a schematic view of the fueling and retail environment... ... fuel dispenser (18 ... Title Terms: FUEL; 3/3.K/2(Item 2 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 015028946 **Image available** WPI Acc No: 2003-089463/200308 XRPX Acc No: N03-070503 dispenser misoperation detection method involves comparing amount of fuel alleged to be dispensed and reference calculated by analyzing fuel extracted from storage tank, during transaction Patent Assignee: GILBARCO INC (GILB-N) Inventor: DICKSON T E Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date Week US 6463389 B1 20021008 US 2000495024 A 20000131 200308 B

Priority Applications (No Type Date): US 2000495024 A 20000131 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 6463389 B1 15 G01F-007/00 Fuel dispenser misoperation detection method involves comparing amount of fuel alleged to be dispensed and reference calculated by analyzing fuel extracted from storage tank, during transaction Inventor: DICKSON T E Abstract (Basic): An amount of fuel alleged to be dispensed on a fuel dispenser , is compared with a reference calculated by analyzing the fuel extracted from a storage tank, during fueling transaction. An alarm is generated, if the fuel amount is within a confidence interval estimates or if the volumes are not comparable. 1) Fuel dispenser; (... ...3) Computer readable medium storing fuel dispenser misoperation detection program... ... For detecting misoperation of fuel dispenser (claimed) which is used to deliver fuel such as gasoline or diesel fuel to vehicle... ... Effectively detects fraud within fuel dispensing transactions and provides an appropriate alert to rectify the situation... ... The figure shows the flow diagram illustrating the fuel dispenser misoperation detection procedure Title Terms: FUEL; 3/3,K/3 (Item 3 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 014918862 **Image available** WPI Acc No: 2002-739569/200280 XRPX Acc No: N02-582598 Fraud detection method in fuel dispenser , involves comparing amount of fuel to be dispensed with actual amount of fuel dispensed, based on which alarm indicating difference between actual amount and determined amount is output Patent Assignee: GILBARCO INC (GILB-N) Inventor: DICKSON T E Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date Week
US 6438452 B1 20020820 US 2000494902 A 20000131 200280 B Priority Applications (No Type Date): US 2000494902 A 20000131 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 6438452 B1 15 G06F-017/00 Fraud detection method in fuel dispenser , involves comparing amount of fuel to be dispensed with actual amount of fuel dispensed, based on which alarm indicating difference between actual amount and

determined amount is output

Inventor: DICKSON T E

Abstract (Basic):

The amount of **fuel** to be **dispensed** on a **fuel dispenser** is determined and compared with the amount of **fuel** actually

dispensed during fuel transaction with respect to fuel dispensing time. If the determined amount of fuel is less than the actual amount, an alarm indicating the difference between the determined amount... 2) Fuel dispenser; and... ...For detecting fraud in fuel dispenser (claimed... ...Detects fraud during fuel transaction, reliably... ... Title Terms: FUEL; 3/3, K/4(Item 4 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. **Image available** 014843881 WPI Acc No: 2002-664587/200271 XRPX Acc No: N02-525643 Fraud detection method in fuel dispenser , involves estimating probability of difference of reported and actual fuel amount, when reported fuel amount is within confidence interval of reference Patent Assignee: GILBARCO INC (GILB-N) Inventor: DICKSON T E Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date US 6421616 B1 20020716 US 2000495022 Α 20000131 200271 B Priority Applications (No Type Date): US 2000495022 A 20000131 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 6421616 B1 15 G01F-001/00 Fraud detection method in fuel dispenser , involves estimating probability of difference of reported and actual fuel amount, when reported fuel amount is within confidence interval of reference Inventor: DICKSON T E Abstract (Basic): The amount of fuel alleged to be dispensed on a fuel dispenser , is reported and compared to a reference related to a known fraudulent information. The probability that the reported amount differs from the actual amount of fuel dispensed, is estimated, when the reported amount is within a confidence interval of the reference. Fuel dispenser; (.2) Central station computer to detect fraud in fueling transaction... ...For detecting fraudulent activity in dispensing fuel into vehicle... ... Consumers confidence is increased and goodwill of the companies responsible for selling fuel is protected from illegal activities, as the fraud involved in fuel dispensing is detected correctly ... Title Terms: FUEL; 3/3, K/5(Item 5 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 014552717 **Image available** WPI Acc No: 2002-373420/200241

XRPX Acc No: N02-291858 Fuel dispensing system for vehicles, has transaction account delivery station which is located remotely from fuel dispenser and is configured to optionally deliver transaction account to customer Patent Assignee: MARCONI COMMERCE SYSTEMS INC (MAON) Inventor: DICKSON T E Number of Countries: 026 Number of Patents: 001 Patent Family: Kind Date Patent No Applicat No Kind Date Week A1 20020102 EP 2001305428 EP 1167278 Α 20010622 200241 B Priority Applications (No Type Date): US 2000599712 A 20000622 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes EP 1167278 A1 E 20 B67D-005/24 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR dispensing system for vehicles, has transaction account delivery station which is located remotely from fuel dispenser and is configured to optionally deliver transaction account to customer Inventor: DICKSON T E Abstract (Basic): dispenser (12) is in communication with a system A fuel controller (14). A transaction account delivery station (22) which is in communication with the system controller, is located remotely from the fuel dispenser and is configured to optionally deliver a transaction account to a customer. For delivering fuel to vehicles of customers... ... Permits a transaction account to be delivered at a separate location to the dispenser . Reduces the number of receipt printers or other transaction account delivery equipment required... ... The figure shows a schematic diagram of fuel dispensors and receipt station with a system controller located in the receipt station... dispenser (12 ... Fuel Title Terms: FUEL; 3/3,K/6 (Item 6 from file: 350) DIALOG(R) File 350: Derwent WITM (c) 2004 Thomson Derwent. All rts. reserv. 014162735 **Image available** WPI Acc No: 2001-646963/200174 XRPX Acc No: N01-483325 Counterfeit detection method in fuel dispenser , involves determining if displayed amount of fuel exceeds the amount of fuel actually dispensed Patent Assignee: DICKSON T E (DICK-I) Inventor: DICKSON T E Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date 20000131 200174 B US 6213172 B1 20010410 US 2000494903 A Priority Applications (No Type Date): US 2000494903 A 20000131

Counterfeit detection method in fuel dispenser , involves determining

Main IPC

15 B65B-001/04

Patent Details:

US 6213172

Patent No Kind Lan Pg

B1

Filing Notes

if displayed amount of fuel exceeds the amount of fuel actually dispensed

Inventor: DICKSON T E

Abstract (Basic):

- The amount of fuel alleged to be dispensed in the fuel dispenser is displayed. The displayed amount is compared with reference derived from vapor recovery system. It...
- ...interval of reference, to estimate a likelihood that the displayed amount exceeds the amount of **fuel** actually **dispensed**.

 a) Method of detecting counterfeit in **fueling** environment...
- dispenser configured to detect counterfeit in fueling ...b) Fuel transaction...
- ...c) Central station computer configured to detect counterfeit in fueling transaction...
- ... For detecting counterfeit fuel dispenser .
- ... By comparing vapor recovery rates between fuel dispensers , a hint is provided to indicate that one or more dispensers have been modified ... Title Terms: FUEL ;

3/3, K/7(Item 7 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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Image available 013392463 WPI Acc No: 2000-564401/200052

Related WPI Acc No: 1999-277052; 2001-210010; 2001-624236; 2002-024699;

2003-656031

MRPM Acc No: M00-416911

Fuel dispensing system for fueling transactions, has dispenser controller that receives secret code from customer and perform fueling only after verifying voice print of customer with voice print stored in database

Patent Assignee: MARCONI COMMERCE SYSTEMS INC (MAON)

Inventor: BLAKE A G; DICKSON T E ; KAEHLER D L; MCSPADDEN J S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No US 6089284 A 20000718 US 9760066 Kind Date Week P 19970926 200052 B A 19980924 US 98160114

Priority Applications (No Type Date): US 9760066 P 19970926; US 98160114 A 19980924

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes US 6089284 A 71 B65B-001/30 Provisional application US 9760066

dispensing system for fueling transactions, has dispenser controller that receives secret code from customer and perform fueling only after verifying voice print of customer with voice print stored in database

... Inventor: DICKSON T E

Abstract (Basic):

The dispenser controller preconditions fuel dispenser (18) on receiving indication from remote communication unit of customer. Fueling is performed after receiving secret code from customer using keypad and verifying voice print of...

- ... The dispenser controller preconditions dispenser by initializing pump electronics for fuel delivery and preselecting fuel type, fuel grade, payment method, card type, amount type, account location. An audio processing system compares voice...
- ...database for authentication of transaction. An INDEPENDENT CLAIM is also included for enhancement method of **fuel** transaction...
- ...For providing dual stage preconditioning and authentication of **fueling** transaction...
- ...Financial security of **fuel** transaction is ensured since **fuel** is supplied only after verifying authenticity of user by comparing voice print with voice print...
- ... The figure shows the schematic representation of **fueling** and retail environment...

... Fuel dispenser (18 Title Terms: FUEL;

3/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

012470944 **Image available**
WPI Acc No: 1999-277052/199923

Related WPI Acc No: 1999-253467; 1999-255039; 1999-263672; 1999-263673;

2000-564401; 2003-208812; 2003-656031

XRPX Acc No: N99-207713

Forecourt ordering system fuel dispensers

Patent Assignee: MARCONI COMMERCE SYSTEMS INC (MAON); GILBARCO LTD

(GILB-N); GILBARCO INC (GILB-N)

Inventor: DICKSON T E ; MARIOM K O; TFPRAMOVA S N

Number of Countries: 083 Number of Estimate 007

Patent Family:

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Pat	ent No	Kind	Date	A:	plicat No	Kind	Date	Week	
WO	9916700	A1	19990403	WO	93GB2919	А	19930928	199923	В
ΑU	9891796	A	19990423	ΑU	9891796	А	19980928	199935	
ΕΡ	1017614	A1	20000712	EΡ	98944131	A	19980928	200036	
				WO	98GB2919	A	19980928		
ΑU	735470	В	20010712	ΑU	9891796	A.	19980928	200147	
EΡ	1017614	E1	20010905	EΡ	93944131	А	19980928	200152	
		-		WO	93GP2919	A.	19980923		
DΕ	69001388	E	20011011	Li.	·1533	A	100300	1,103	
				ΕP	98944131	A	19980523		
				WO	98GB2919	A	19980928		
US	6422464	В1	20020723	US	9760066	P	19970926	200254	
				US	9824742	A	19980217		
				US	2000595255	A	20000615		

Priority Applications (No Type Date): US 98119905 A 19980721; US 9760066 P 19970926; US 9834969 A 19980304; US 9824742 A 19980217; US 2000595255 A 20000615

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes WO 9916700 A1 E 48 B67D-005/08

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

TM TR TT UA UG UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9891796 A Based on patent WO 9916700

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AU 735470 B 20010712 AU 9891796 A 19980928
EP 1017614 B1 20010905 EP 98944131 A 19980928
WO 98GB2919 A 19980928
                                                            200147
                                                            200152
Priority Applications (No Type Date): US 9760066 P 19970926; US 97966237 A
  19971107; US 98159910 A 19980924; US 9824742 A 19980217; US 9834969 A
  19980304; US 98119905 A 19980721
Patent Details:
Patent No Kind Lan Pg Main IPC
                                     Filing Notes
US 5890520
           A 18 B65B-001/30
                                     Provisional application US 9760066
US 6026868
                                     Provisional application US 9760066
             Α
                                     Div ex application US 97966237
US 6098879
           A G07B-015/02
                                     Provisional application US 9760066
AU 735470
            В
                                     Previous Publ. patent AU 9891796
                      B67D-005/08
                                     Based on patent WO 9916700
EP 1017614 B1 E B67D-005/08
                                    Based on patent WO 9916700
   Designated States (Regional): DE FR GB IT
                  dispenser with transponder distinction
  Forecourt fuel
Inventor: DICKSON T E ...
Abstract (Basic):
           The dispenser includes communications electronics, e.g. an
    interrogator, operatively associated with a control system and adapted
...system and communications electronics determine if the first transmitter
    has moved with respect to the dispenser .
           interface with the vehicle's control system to disable the
    vehicle and prevent movement. The dispenser also includes a card
    reader or a cash acceptor and receipt printer...
... Enhances security, safety and functionality of forecourt fuel
    dispenser .
... The drawing shows a schematic side view of the dispenser having
    multiple antenna arrangements for providing directional interrogation
    fields...
... fuel dispenser (10...
...mid dispenser transmit/receive antennae (251,253
... Title Terms: FUEL;
            (Item 1 from file: 348)
3/3,K/10
DIALUJ(R) File 315: EUROPEAN ENTHUL
(c) 2004 European Patent Office. All rts. reserv.
01372012
         dispensing system providing a transaction account to a customer
A fuel
Zapfeinrichtung mit Rechnungsstellung fur Kraftstoff
Systeme de distribution de carburant fournissant un recu
PATENT ASSIGNEE:
 Marconi Commerce Systems Inc., (3013620), 7300 W. Friendly Avenue, P.O.
    Box 22087, Greensboro, NC 27420-2087, (US), (Applicant designated
    States: all)
INVENTOR:
  Dickson, Timothy E. , 1211 Hounslow Drive, Greensboro, NC 27410, (US
LEGAL REPRESENTATIVE:
  Fitchett, Stuart Paul et al (83742), Saunders & Dolleymore European
    Patent Attorneys 9 Rickmansworth Road, Watford WD18 0JU, (GB)
PATENT (CC, No, Kind, Date): EP 1167278 A1 020102 (Basic)
APPLICATION (CC, No, Date): EP 2001305428 010622;
PRIORITY (CC, No, Date): US 599712 000622
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presents said token...

...14 or 15 wherein said customer identification means comprises a biometric sensor located at said **fuel dispensing** station, whereby an indicia unique to each customer is generated by said customer presenting physical...

...facial features, or genetic samples.

- 20. The system of claim 14 wherein the of the **fuel dispensing** station means for uniquely identifying a customer comprises a sensor configured to detect the presence...
- ...customer identification indicia via operative communication with a transponder located on the customer vehicle,
 - each fuel dispenser station (12) further comprising a display (13) whereby fuel transaction information is dynamically displayed to the customer during and following fuel dispensing, said transaction information selected from the group consisting of fuel amount, fuel price, fuel grade, transaction total and advertising messages

wherein the transaction account delivery station means for uniquely...

3/3,K/11 (Item 2 from file: 348) DIALOG(R)File 348:EUROPEAN PATENTS (c) 2004 European Patent Office. All rts. reserv.

01040026

A FORECOURT ORDERING SYSTEM FOR FUEL AND SERVICES AT A FILLING STATION BESTELLSYSTEM FUR KRAFTSTOFF UND KUNDENDIENST AN EINER TANKSTELLE SYSTEME DE PRISE DE COMMANDE EN AVANT-COUR POUR CARBURANT ET SERVICES DANS UNE STATION-SERVICE

PATENT ASSIGNEE:

Marconi Commerce Systems Inc., (570622), 7300 West Friendly Avenue P.O. B & 27 7, Gransboro, North Commerce P.O. Commerce Systems Inc., (777),

INVEHIOR:

DICKSON, Timothy, Earle , 1211 Hounslow Drive, Greensboro, NC 27410, (US)

MARION, Kenneth, Orvin, 4702 Horseshoe Lane, Guilford, NC 27410, (US LEGAL REPRESENTATIVE:

Fitchett, Stuart Paul (83741), Marconi Intellectual Property, Marrable House, The Vineyards, Gt. Baddow, Chelmsford, Essex CM2 7QS, (GE) PATENT (CC, No, Kind, Date): EP 1017614 Al 000712 (Basic)

EP 1017614 B1 010905

WO 9916700 990408

ADDITION (CC, No. Date): Fig. 11101 91000; No. 900000 90000

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: B67D-005/08

NOTE:

No A-document published by EPO

LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS B (English) 200136 1108 CLAIMS B (German) 200136 1005 CLAIMS B (French) 200136 1343 SPEC B (English) 200136 6267 Total word count - document A 0 Total word count - document B 9723 Total word count - documents A + B 9723

A FORECOURT ORDERING SYSTEM FOR FUEL AND SERVICES AT A FILLING STATION

said remote communications unit is proximate said fuel dispenser;

- ii) associate a customer order placed at the order entry user interface with the remote...
- ...unit of the customer who placed the order at the order entry interface of the **fuel dispenser** and provide said output indicating the customer who placed the order is at the order...

3/3,K/12 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

DIALOG(R) FILE 349: PCT FULLTEXT

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00485348 **Image available**

A FORECOURT ORDERING SYSTEM FOR FUEL AND SERVICES AT A FILLING STATION SYSTEME DE PRISE DE COMMANDE EN AVANT-COUR POUR CARBURANT ET SERVICES DANS UNE STATION-SERVICE

Patent Applicant/Assignee:

GILBARCO LIMITED,

Inventor(s):

DICKSON Timothy Earle ,

MARION Kenneth Orvin

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9916700 A1 19990408

Application:

WO 98GB2919 19980928 (PCT/WO GB9802919)

Priority Application: US 9760066 19970926; US 9834969 19980304; US

98119905 19980721

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE

CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN

GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 7956

A FORECOURT ORDERING SYSTEM FOR FUEL AND SERVICES AT A FILLING STATION:

Inventor(s):

DICKSON Timothy Earle ...

Fulltext Availability:

Detailed Description

Claims

English Abstract

والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية والمراوية

C

(0.) having an order entry ν , i.e., ν , and above ν , ν , remains communications electronics (60) adapted...

- ...a remote communications unit associated with the customer. An order receipt position apart from the **fuel dispenser** is provided and includes a second remote communications electronics (58) adapted to communicate with the...
- ...receipt location. An intermediate locating position (208) located along the path of travel between the **fuel dispenser** and the order receipt position may also be provided.

Detailed Description

A FORECOURT ORDERING SYSTEM FOR **FUEL** AND SERVICES AT A FILLING STATION Background of the Invention

The present invention relates generally to a forecourt ordering system fuel dispensers and, more particularly, to fuel dispensers and systems capable of communicating with various types of transponders and

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File 344: Chinese Patents Abs Aug 1985-2003/Nov
         (c) 2003 European Patent Office
File 347: JAPIO Oct 1976-2003/Oct (Updated 040202)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD, UM &UP=200412
         (c) 2004 Thomson Derwent
?ds
Set
        Items
                Description
S1
           75
                (FUEL OR PETROLEUM OR PETROL) () (DISPENS? OR FILL? ? OR FIL-
             LING? OR DISTRIBUT?) (3N) (SENSOR OR SENSORS OR SENSING OR DETE-
             CTOR? OR SIGNAL? ?)
S2
                (ROBOTIC? OR AUTOMATE?) (3N) (FUEL OR PETROLEUM OR PETROL) () -
              (DISPENS? OR FILL? ? OR FILLING? OR DISTRIBUT?)
S3
        57844
                 (DETECT? OR IDENTIF?) (3N) (AUTO? ? OR AUTOMOBILE? OR AUTOMO-
             TIVE? OR VEHICLE? OR TRUCK? ? OR MOTOR?() VEHICLE? OR LORRY OR
             LORRIES OR CAR? ? OR FLEET? OR (AUTO OR MOTOR) () CAR? OR AUTOC-
             AR? OR MOTORCAR? OR VAN? ?)
                (REMOTE OR DISTANT? OR SEPARATE? OR LOCATION? OR APART OR -
S4
             FAR()OFF OR FAR()AWAY OR OFF()SITE? OR OFFSITE? OR REMOVED)
S5
                S5(5N)(RECEIPT? OR PRINT()OUT? OR ACCOUNTING?)
S6
                AU=(DICKSON, T? OR DICKSON T ?)
           32
S7
           93
                S1 OR S2
                S3 OR ((FILL OR FILLS OR GASES OR FUELS)()UP)(3N)(AUTO? ? -
S8
        57864
             OR AUTOMOBILE? OR AUTOMOTIVE? OR VEHICLE? OR TRUCK? ? OR MOTO-
             R?() VEHICLE? OR LORRY OR LORRIES OR CAR? ? OR FLEET? OR (AUTO
             OR MOTOR) () CAR? OR AUTOCAR? OR MOTORCAR? OR VAN)
S9
                S7 AND S8
            4
                S7 AND S4
S10
           24
                S10 AND (RECEIPT? OR PRINT()OUT? OR ACCOUNTING?)
S11
           0
           22
                S10 NOT S9
S12
                S12 AND IC=(B67D OR G06F)
S13
           15
S14
           0
                S6 AND S1
```

9/5/1 (Item 1 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 013824022 **Image available** WPI Acc No: 2001-308234/200132 Related WPI Acc No: 2004-059196 XRPX Acc No: N01-220574 Financial transaction card e.g. credit card, debit card, has filter associated with transparent areas to provide sufficient opacity to light used by card sensors in automated card processing equipment Patent Assignee: PERFECT PLASTIC PRINTING CORP (PERF-N) Inventor: KIEKHAEFER J H Number of Countries: 019 Number of Patents: 003 Patent Family: Patent No Kind Date Applicat No Kind Date Week WO 200125872 20010412 WO 2000US27004 A A2 20000929 200132 B 20010918 US 99411359 US 6290137 В1 19991001 Α 200157 US 6296188 B1 20011002 US 99411359 19991001 Α 200160 US 99449251 Α 19991124 Priority Applications (No Type Date): US 99449251 A 19991124; US 99411359 A 19991001 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 200125872 A2 E 49 G06F-000/00 Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE US 6290137 G06K-019/00 B1 US 6296188 В1 G06K-019/00 CIP of application US 99411359 Abstract (Basic): WO 200125872 A2 NOVELTY - A financial transaction card (20) such as credit card, debit card, has planar material sheet with upper and lower surfaces, bounded by continuous peripheral edge (28). A filter (32) is associated with areas (30) that are minimally transparent or translucent to human view. The filter offers sufficient opacity to light used by card sensors in automated card processing equipment, to make the card detectable . DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for financial transaction card manufacturing method. USE - E.g. credit card, debit card, ATM card used in automated dispenser and other point-of-sale (POS) card processing equipment. ADVANTAGE - The card being relatively unique in the market place, imparts status to the card user, compared to the other opaque card users. Potentially attracts user who preferably selects such a card over competitive opaque cards, and thereby provides income to the institution as a result of card usage. The light scattering materials provide a mechanism for reducing near infrared light transmittance and if desired, an ultraviolet light absorbing material is added to prevent degradation of light filtering material. DESCRIPTION OF DRAWING(S) - The figure shows the plan view of financial transaction card. Financial transaction card (20) Peripheral edge (28) Transparent area (30) Filter (32) pp; 49 DwgNo 3/8 Title Terms: FINANCIAL; TRANSACTION; CARD; CREDIT; CARD; DEBIT; CARD; FILTER; ASSOCIATE; TRANSPARENT; AREA; SUFFICIENT; OPAQUE; LIGHT; CARD; SENSE; AUTOMATIC; CARD; PROCESS; EQUIPMENT

International Patent Class (Main): G06F-000/00; G06K-019/00
File Segment: EPI

Derwent Class: T01; T04; T05

(Item 2 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 011670273 **Image available** WPI Acc No: 1998-087182/199808 XRPX Acc No: N98-069193 Monitoring system for delivery of fuel to road vehicles - has sensors determining which fuel dispensing nozzle is used, and reads information from vehicle for identification, and nozzles are coupled to processing unit which is connected to pump controller Patent Assignee: ORDICAM RECH & DEV (ORDI-N); ORDICAM RECH & DEV SA (ORDI-N) Inventor: LEGOUX J; MICHOT G Number of Countries: 023 Number of Patents: 006 Patent Family: Patent No Kind Date Applicat No Kind Date Week WO 9800817 19980108 WO 97FR1101 A1 Α 19970619 199808 FR 2750521 19980102 FR 968201 Α1 Α 19960628 199809 EP 907938 EP 97930554 Α1 19990414 Α 19970619 199919 WO 97FR1101 Α 19970619 EP 907938 В1 20010822 EP 97930554 Α 19970619 200149 WO 97FR1101 Α 19970619 DE 606304 DE 69706304 20010927 Е Α 19970619 200164 EP 97930554 Α 19970619 WO 97FR1101 Α 19970619 WO 97FR1101 US 6598792 20030729 В1 Α 19970619 200354 US 2000529229 20000817 Α Priority Applications (No Type Date): FR 968201 A 19960628 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 9800817 A1 F 22 G07F-013/02 Designated States (National): BR CA JP RU US Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE FR 2750521 G07F-007/10 Α1 EP 907938 A1 F G07F-013/02 Based on patent WO 9800817 Designated States (Regional): BE CH DE GB IT LI EP 907938 B1 F G07F-013/02 Based on patent WO 9800817 Designated States (Regional): BE CH DE GB IT LI DE 69706304 G07F-013/02 Based on patent EP 907938 F. Based on patent WO 9800817 US 6598792 В1 G06F-017/60 Based on patent WO 9800817 Abstract (Basic): WO 9800817 A The system includes a receiving unit (UR) at the station,

associated with a computer (5) managing the dispensing nozzles (2,3,4). A terminal (T) is associated with a pump controller (6), and is linked to the receiving unit. An identifying module is associated with each of the dispensing nozzles, and also with each vehicle.

A system is provided for reading the module which is provided near to the fuel tank inlet on the vehicle , in order to identify the vehicle and provide other data. A transmitter- receiver is provided to send this information to the receiving unit. The system may be used in conjunction with stored reference information, in order to validate the use of the fuel pump by a particular vehicle.

USE - Enables authentication and monitoring of fuel supply to vehicles by road transport companies. Dwg.1/2

Title Terms: MONITOR; SYSTEM; DELIVER; FUEL; ROAD; VEHICLE; SENSE; DETERMINE; FUEL; DISPENSE; NOZZLE; READ; INFORMATION; VEHICLE; IDENTIFY; NOZZLE; COUPLE; PROCESS; UNIT; CONNECT; PUMP; CONTROL

Derwent Class: Q39; W02; W06; X25

International Patent Class (Main): G06F-017/60; G07F-007/10; G07F-013/02

International Patent Class (Additional): B67D-005/14; B67D-005/33;

G06K-019/07; G07F-015/00 File Segment: EPI; EngPI

9/5/3 (Item 3 from file: 350) DIALOG(R) File 350: Derwent WPIX

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009787594 **Image available**
WPI Acc No: 1994-067447/199409

XRPX Acc No: N94-052805

Leakage detector for fuel dispensing petrol pump with master and satellite dispenser - periodically activates pump when in non-dispensing mode and monitors output of fuel flow meter to detect flow

Patent Assignee: GILBARCO INC (GILB-N)

Inventor: GROSE J S

Number of Countries: 017 Number of Patents: 010

Patent Family:

Pat	ent No	Kind	Date	Apj	plicat No	Kind	Date	Week	
ΕP	584924	A1	19940302	EΡ	93305545	Α	19930715	199409	В
ΑU	9342048	Α	19940127	ΑU	9342048	Α	19930720	199410	
NO	9302602	Α	19940124	NO	932602	Α	19930719	199411	
US	5325706	Α	19940705	US	92917762	A	19920721	199426	
NZ	248098	Α	19950328	ΝZ	248098	Α	19930707	199519	
ΑU	667551	В	19960328	AU	9342048	A	19930720	199622	
EP	584924	B1	19960508	ΕP	93305545	Α	19930715	199623	
DE	69302543	E	19960613	DE	602543	Α	19930715	199629	
				EΡ	93305545	A	19930715		
ES	2088230	Т3	19960801	ΕP	93305545	Α	19930715	199637	
NO	304223	B1	19981116	NO	932602	Α	19930719	199901	

Priority Applications (No Type Date): US 92917762 A 19920721 Cited Patents: EP 351061; US 3940020; US 4658986; US 5072621 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 584924 A1 E 6 B67D-005/32

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI NL SE

US 5325706 A 6 G01M-003/28

AU 667551 B B67D-005/32 Previous Publ. patent AU 9342048

EP 584924 B1 E 7 B67D-005/32

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI NL SE

DE 69302543 E B67D-005/32 Based on patent EP 584924 ES 2088230 T3 B67D-005/32 Based on patent EP 584924

NO 304223 B1 B67D-005/08 Previous Publ. patent NO 9302602

AU 9342048 A B67D-005/32 NO 9302602 A B65D-090/50

NZ 248098 A B67D-005/32

Abstract (Basic): EP 584924 A

The fuel dispenser includes master and satellite dispensers and a leakage detection system. A fuel reservoir (22) and a pump (24) feed a first leg of piping. The master dispenser (30) has an outlet hose (38) with a user-controlled switch (40). This activates the pump and feeds fuel to both the master and satellite (30) dispensers.

The fuel flows via a meter (28) in the master dispenser. The leak detection system periodically activates the pump when it is in a non-dispensing state. The meter's output is monitored to detect a fuel flow indicating a leak condition.

USE/ADVANTAGE - Eg for fuelling lorry having fuel tanks located on both sides of ${\bf vehicle}$. Provides leak ${\bf detection}$ for both master and satellite dispensing u

nits.

Dwg.1/1

Title Terms: LEAK; DETECT; FUEL; DISPENSE; GASOLINE; PUMP; MASTER; SATELLITE; DISPENSE; PERIOD; ACTIVATE; PUMP; NON; DISPENSE; MODE; MONITOR; OUTPUT; FUEL; FLOW; METER; DETECT; FLOW

Derwent Class: Q39; S02; X25

International Patent Class (Main): B65D-090/50; B67D-005/08; B67D-005/32; G01M-003/28

International Patent Class (Additional): B67D-005/16; B67D-005/377;
B67D-005/44; B67D-005/50; B67D-005/60; F17D-005/02; G01M-003/00;
G08B-021/00

File Segment: EPI; EngPI

9/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

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001292485

WPI Acc No: 1975-H6398W/197530

Automated dispensing appts. for motor fuel - for operation with credit cards activates dispensing mechanism if card data are satisfactory

Patent Assignee: ATLANTIC RICHFIELD CO (ATLF) Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
GB 1400654 A 19750723 197530 B
CA 997841 A 19760928 197642

Priority Applications (No Type Date): US 72256748 A 19720525

Abstract (Basic): GB 1400654 A

The appts. includes a receiver for examining the card and identifying data on the card, and producing appropriate signals, a petrol dispensing mechanism, and a data bank. The card receiver returns the card to the customer after examination and produces a 'card removed' signal upon the card being taken from the appts. and, if the read data is satisfactory, the appts. is rendered operative. The petrol pump produces a signal representing the value of fuel dispensed, which is fed to the data bank together with signals representing the data identifying the card and customer etc. The petrol pump installation may e.g. include a number of pumps, with the control circuitry of the appts. then including a pump selector system.

Title Terms: AUTOMATIC; DISPENSE; APPARATUS; MOTOR; FUEL; OPERATE; CREDIT; CARD; ACTIVATE; DISPENSE; MECHANISM; CARD; DATA; SATISFACTORY

Derwent Class: Q39; T05

International Patent Class (Additional): B67D-005/14; G07F-007/02

File Segment: EPI; EngPI

13/5/1 (Item 1 from file: 347)

DIALOG(R) File 347: JAPIO

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03470899 **Image available**

FUEL FILLING DEVICE

PUB. NO.: 03-133799 [JP 3133799 A] PUBLISHED: June 06, 1991 (19910606)

INVENTOR(s): OKADA KAZUNORI

APPLICANT(s): TOKICO LTD [000305] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 01-274694 [JP 89274694]

FILED: October 20, 1989 (19891020)

INTL CLASS: [5] B67D-005/32; B67D-005/24

JAPIO CLASS: 24.1 (CHEMICAL ENGINEERING -- Fluid Transportation); 29.4

(PRECISION INSTRUMENTS -- Business Machines); 45.3

(INFORMATION PROCESSING -- Input Output Units)

JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &

Microprocessers)

JOURNAL: Section: M, Section No. 1153, Vol. 15, No. 346, Pg. 29,

September 03, 1991 (19910903)

ABSTRACT

PURPOSE: To prevent a fuel purchase price of this time from being added to a fuel purchase price which was fed last time by a method wherein the discharge of a fuel liquid from a filling nozzle is stopped from the moment when a fuel filling completion signal was input to the moment when a fuel filling possible signal becomes impossible to be input.

CONSTITUTION: When a filling nozzle is placed correctly in a nozzle storage section 9 in order to complete fuel filling, a nozzle switch 10 stops the output of a nozzle signal. Then, an abnormality detecting circuit 113 for a POS terminal 101, in which the fuel filling stop signal, fuel filling quantity and metering machine number are stored, outputs these data to a POS control circuit 108, and at the same time, outputs a fuel filling prohibiting signal to a fixed type metering machine 1 which has output the fuel filling stop signal. By doing this, to a forcible stop circuit 15 for the fixed type metering machine 1, the fuel filling prohibiting signal is input, and therefore, even when a filling nozzle 8 is removed from the nozzle storage section 9 after this moment, fuel filling is impossible.

13/5/2 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015770705 **Image available**
WPI Acc No: 2003-832907/200377
Related WPI Acc No: 2002-061623
XRPX Acc No: N03-665861

Fuel dispenser has control system that provides automated teller functions to user using account information read from card inserted into card reader

Patent Assignee: MCSPADDEN J S (MCSP-I); TERRANOVA S N (TERR-I)

Inventor: MCSPADDEN J S; TERRANOVA S N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 20030205619 A1 20031106 US 2001779822 A 20010208 200377 B
US 2003446031 A 20030527

Priority Applications (No Type Date): US 2001779822 A 20010208; US

2003446031 A 20030527 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes Cont of application US 2001779822 Abstract (Basic): US 20030205619 A1 NOVELTY - A control system (22) controls fuel delivery system that delivers fuel to vehicle, and user interface (12) that includes card reader (30), displays (40,42) and key pads (44,46). The control system provides automated teller functions to user using account information read from card inserted into the card reader, such that the user performs remote banking transaction during fueling transaction. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) fuel dispensing system; and (2) energy dispenser. USE - Fuel dispenser with automated teller functions for facilitating remote banking transactions of user through financial network. ADVANTAGE - Provides a customer the opportunity to:conduct remote banking transaction in association with dispenser transaction, thereby attracting more customers to the fuel dispensing station. DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of the fuel dispenser. fuel dispenser (10) user interface (12) control system (22) card reader (30) cash acceptor (32) alphanumeric display (40) graphics display (42) soft keypad (44) hard keypad (46) pp; 22 DwgNo 1/15 Title Terms: FUEL; DISPENSE; CONTROL; SYSTEM; AUTOMATIC; TELLER; FUNCTION; USER; ACCOUNT; INFORMATION; READ; CARD; INSERT; CARD; READ Derwent Class: T05; X25 International Patent Class (Main): G06F-007/08 File Segment: EPI (Item 2 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 015199036 **Image available** WPI Acc No: 2003-259570/200326 XRPX Acc No: N03-205767 Control unit for electrical system at retail fuel dispenser , comprises current sensors in the supply phases to the pump motor, means for peak lopping, comparison to reference and supply tripping Patent Assignee: CHAREF M (CHAR-I); TON A (TONA-I) Inventor: CHAREF M; TON A Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date FR 2828026 A1 20030131 FR 200110029 A 20010726 200326 B Priority Applications (No Type Date): FR 200110029 A 20010726 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes FR 2828026 A1 13 H02H-007/09 Abstract (Basic): FR 2828026 A1 NOVELTY - Fuel is stored in a tank (2) and pumped (4) to a terminal (8) with distribution to vehicles through a pipe (9) and pistol (10).

Electricity is supplied through circuit breakers (11,14) and monitored by an electronic control unit (19). The control unit has current sensors, typically Hall type with peak lopping and the signals are compared to reference values related to load and used where necessary and in conjunction with timing relays to trip the supply USE - To control electrical system at retail fuel dispenser ADVANTAGE - The electronic control system does not use electromechanical relays and does not therefore need an expensive anti-explosion cabinet or remote siting DESCRIPTION OF DRAWING(S) - The drawing shows the retail fuel dispenser Tank (2) Pump (4) Terminal (8) Fuel pipe (9) Fuel pistol (10) Circuit breakers (11,14) Electronic control unit (19) pp; 13 DwgNo 1/2 Title Terms: CONTROL; UNIT; ELECTRIC; SYSTEM; RETAIL; FUEL; DISPENSE; COMPRISE; CURRENT; SENSE; SUPPLY; PHASE; PUMP; MOTOR; PEAK; LOP; COMPARE; REFERENCE; SUPPLY; TRIP Derwent Class: Q39; T06; V06; X13; X25 International Patent Class (Main): H02H-007/09 International Patent Class (Additional): B67D-005/04; B67D-005/44; H02P-003/18 File Segment: EPI; EngPI 13/5/4 (Item 3 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. **Image available** 014432969 WPI Acc No: 2002-253672/200230 XRPX Acc No: N02-195779 Light monitoring system for automated transaction machine, has sensors which detect light level of area adjacent to automated transaction machine based on which monitoring unit adjusts light level Patent Assignee: DIEBOLD INC (DIEB-N) Inventor: GRABOWSKI D P; HOSKINSON J; MANNELLA L Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date Week B1 20011023 US 9767010 US 6305602 P 19971201 200230 B US 98198078 Α 19981123 Priority Applications (No Type Date): US 9767010 P 19971201; US 98198078 A 19981123 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 6305602 B1 15 G06F-017/60 Provisional application US 9767010 Abstract (Basic): US 6305602 B1 NOVELTY - A light level sensors of remote units (22,24,26) sense the light level in an area adjacent to automated transaction machine (12). A remote unit transmits a wireless signal to a controller (30) when the sensed light level falls below a threshold value. An indicator of the controller provides an indication of sensed condition to remote monitoring units based on which light level is adjusted. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for light monitoring system operation method. USE - For automated transaction machines e.g. automated teller machine, automated ticketing machine, automated fuel dispensing machine, night depositories, machines for enabling use of items for a

fee such as airport luggage carts or rental cars and automated gaming machines.

light monitoring system.

Automated transaction machine (12)

Remote units (22,24,26)

Controller (30)

pp; 15 DwgNo 1/4

Title Terms: LIGHT; MONITOR; SYSTEM; AUTOMATIC; TRANSACTION; MACHINE; SENSE; DETECT; LIGHT; LEVEL; AREA; ADJACENT; AUTOMATIC; TRANSACTION; MACHINE; BASED; MONITOR; UNIT; ADJUST; LIGHT; LEVEL

Derwent Class: T01; T04; T05; W02; W05

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06K-007/00

File Segment: EPI

13/5/5 (Item 4 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014417203 **Image available**
WPI Acc No: 2002-237906/200229

Related WPI Acc No: 2000-013093; 2001-407567

XRPX Acc No: N02-183173

Remote communication arbitration system using tag location with tag or host interaction record uses transponder in fuel dispensing environment includes arbitration between competing tags by proximity

Patent Assignee: LEATHERMAN R D (LEAT-I)

Inventor: LEATHERMAN R D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 20010034565 A1 20011025 US 9864575 A 19980422 200229 B
US 2001798266 A 20010302

Priority Applications (No Type Date): US 9864575 A 19980422; US 2001798266 A 20010302

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20010034565 A1 23 G06F-019/00 Div ex application US 9864575
Abstract (Basic): US 20010034565 A1

NOVELTY - Remote communication arbitration unit using an RFID tag location system using tag (100) or host interaction record comprises of a communication system using transponder between fuel dispensers (200) and tags, in either key-fob or card format, storing sequence of data records relating to attributes of interactions between dispensers and tags

DETAILED DESCRIPTION - The records may be stored on the tag or at a remote location, such as the dispenser or a central site controller or other network (300). Stored records may contain the ID of the dispenser, the tag and attributes of the received signal. Fuel dispenser provides arbitration between tags on a proximity basis. A database is used to store previous tag/dispenser interaction data. The tags, POS device and network can be adapted to provide encrypted communications.

INDEPENDENT CLAIMS are included for :-

- 1. A fuel dispenser.
- 2. Fuel dispensing system.
- 3. The method of providing arbitration of **remote** communication devices.

USE - Used to provide arbitration between multiple transponder tags in a fuel-dispensing environment.

ADVANTAGE - Provides effective arbitration between POS devices and multiple tags in a dispensing environment where one or more tags in close proximity to one or more dispensers will communicate on a proximity basis and avoid cross talk.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic of a service station constructed and implementing a preferred embodiment of the present invention.

Transponder tag (100)

Fuel dispenser (POS) (200)

Network (300)

pp; 23 DwgNo 1/11

Title Terms: REMOTE; COMMUNICATE; ARBITER; SYSTEM; TAG; LOCATE; TAG; HOST; INTERACT; RECORD; TRANSPONDER; FUEL; DISPENSE; ENVIRONMENT; ARBITER;

COMPETE; TAG; PROXIMITY Derwent Class: T01; T05

International Patent Class (Main): G06F-019/00

File Segment: EPI

13/5/6 (Item 5 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014204002 **Image available**
WPI Acc No: 2002-024699/200203

Related WPI Acc No: 2000-564401; 2000-655376; 2001-210010; 2001-624236

XRPX Acc No: N02-019043

Fuel dispenser for vehicles, analyzes signal including signature pulses to determine whether signature pulse stream is similar to that stored in memory

Patent Assignee: MARCONI COMMERCE SYSTEMS INC (MAON)

Inventor: MYERS H M; RONCHETTI J J; WATKINS R O Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 6296148 B1 20011002 US 99282897 A 19990331 200203 B
US 2000563828 A 20000503

Priority Applications (No Type Date): US 99282897 A 19990331; US 2000563828 A 20000503

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6296148 B1 25 B67D-005/00 Div ex application US 99282897 Div ex patent US 6109477

Abstract (Basic): US 6296148 B1

NOVELTY - A meter measures the volume or flow rate of the fuel passing through a flow line. A signal generator (410) connected to the flow line or the meter, generates a signal including signature pulses to be identified. A signal analyzer analyzes the signal, to determine whether the signature pulse stream is similar to an expected signature pulse stream stored in a memory.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for fuel dispensing system.

USE - For dispensing fuel to vehicles.

ADVANTAGE - The tamper activity during fuel dispensing operation is prevented, by determining whether the signature to be identified is similar to the expected signature stored in memory. Effective off - site monitoring of the fuel operation is enabled.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the pulse generator with encoder.

Signal generator (410)

pp; 25 DwgNo 4A/15

Title Terms: FUEL; DISPENSE; VEHICLE; ANALYSE; SIGNAL; SIGNATURE; PULSE; DETERMINE; SIGNATURE; PULSE; STREAM; SIMILAR; STORAGE; MEMORY

Derwent Class: Q39; U22; X22; X25

International Patent Class (Main): B67D-005/00

File Segment: EPI; EngPI

13/5/7 (Item 6 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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013446602 **Image available**
WPI Acc No: 2000-618545/200059
Related WPI Acc No: 2001-315828

XRPX Acc No: N00-458383

Remote controlled automated fuel dispensing system in service station, uses robotic actuator for refueling based on positioned relationship of fuel inlet actuator and nozzle determined by vision system

Patent Assignee: TOKHEIM CORP (TOKH-N)

Inventor: CHRISTMAN G; GOGGIN W; CHRISTMAN G L Number of Countries: 023 Number of Patents: 005

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200037355 20000629 WO 99US30169 19991217 200059 B A1 Α A1 FR 2787417 20000623 FR 9916215 19991222 200059 Α EP 1194364 A1 20020410 EP 99967405 . A 19991217 200232 WO 99US30169 19991217 Α A US 6390151 B1 20020521 US 98218516 19981222 200239 MX 2001006444 A1 20010901 MX 20016444 Α 20010622 200239

Priority Applications (No Type Date): US 98218516 A 19981222

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200037355 A1 E 70 B67D-005/00

Designated States (National): BR CA DE ES GB ${\tt MX}$

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

FR 2787417 A1 B65D-005/02

EP 1194364 A1 E B67D-005/04 Based on patent WO 200037355

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

US 6390151 B1 B67D-005/00 MX 2001006444 A1 B67D-005/00

Abstract (Basic): WO 200037355 A1

NOVELTY - A **remote** control system (20) controls site controllers of fuel dispenser (14) via common link (16). The robotic actuator of dispenser is controlled by **remote** system based on fuel request from the site controllers. The position relationship of the robotic actuator to vehicle fuel inlet and nozzle is determined by vision system to control fuel dispensing.

DETAILED DESCRIPTION - The control system connected to the site controllers via network such as internet, processes transaction information for billing, based on user i/p. The site controller includes common device for connecting customer with required web merchant for e-commerce during refueling.

USE - For fuel dispensing in service station. Also for other transactions such as on-line shipping for ordering in restaurants.

ADVANTAGE - The chit of customer from vehicle for refueling is eliminated, by using hydraulically actuated robotic actuator. The **remote** system functions in multi-tasking environment and hence handles multiple request simultaneously.

 ${\tt DESCRIPTION}$ OF DRAWING(S) - The figure shows the block diagram of the fuel dispensing system.

Fuel dispenser (14) Common link (16) pp; 70 DwgNo 1/6

Title Terms: REMOTE; CONTROL; AUTOMATIC; FUEL; DISPENSE; SYSTEM; SERVICE; STATION; ROBOT; ACTUATE; BASED; POSITION; RELATED; FUEL; INLET; ACTUATE;

NOZZLE; DETERMINE; VISION; SYSTEM

Derwent Class: Q39; T01; T05; X22; X25

International Patent Class (Main): B65D-005/02; B67D-005/00; B67D-005/04

International Patent Class (Additional): B65D-005/08; B67D-005/14

File Segment: EPI; EngPI

13/5/8 (Item 7 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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012239912 **Image available** WPI Acc No: 1999-046020/199904

XRPX Acc No: N99-033522

Automated petrol filling station operating method - in which payment is received from customer and compared with amount of fuel delivered to determine amount of change dispensed

Patent Assignee: WILLIAMS RETAIL SOLUTIONS INC GARY (WILL-N); GARY-WILLIAMS ENERGY CORP (GARY-N)

Inventor: BRUSKOTTER T P; KUROWSKI M; SWAPP E M Number of Countries: 083 Number of Patents: 005

Patent Family:

Patent No Kind Date Applicat No Kind WO 9855952 A1 19981210 WO 98US11160 Α 19980603 199904 B AU 9877132 AU 9877132 Α 19981221 Α 19980603 199919 US 5895457 US 97868247 Α 19990420 Α 19970603 199923 US 97946304 Α 19971007 EP 98925111 EP 1008082 A1 20000614 Α 19980603 200033 WO 98US11160 Α 19980603 AU 746144 20020418 AU 9877132 В 19980603 200238 Α

Priority Applications (No Type Date): US 97946304 A 19971007; US 97868247 A 19970603

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

A1 E 34 G06F-017/60 WO 9855952

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9877132 Α

Based on patent WO 9855952

US 5895457 Α G06F-017/60

CIP of application US 97868247 G06F-017/60 Based on patent WO 9855952

EP 1008082 A1 E

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

AU 746144 В G06F-017/60 Previous Publ. patent AU 9877132 Based on patent WO 9855952

Abstract (Basic): WO 9855952 A

The filling station operating method involves using a network of filling stations (16) that report to a host computer. Each filling station (16) has a number of fuel pump systems (22) and a change dispenser system (24).

Upon completion of a fueling transaction, a code is provided to a customer at a fuel pump system (22). The customer can enter the code to retrieve cash at the change dispenser (24), or can use the code for credit towards subsequent fuel purchase within the network.

USE - Automated filling station with change dispenser, for accommodating needs for all types of customers e.g. cash customers by providing change in cash form.

ADVANTAGE - Facilitates remote operation and payment in forms including cash payment.

Dwg.2/6

Title Terms: AUTOMATIC; GASOLINE; FILL; STATION; OPERATE; METHOD; PAY; RECEIVE; CUSTOMER; COMPARE; AMOUNT; FUEL; DELIVER; DETERMINE; AMOUNT; CHANGE; DISPENSE

Derwent Class: T01; T05; W01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G07F-007/02; G07F-007/04

File Segment: EPI

13/5/9 (Item 8 from file: 350)

DIALOG(R) File 350: Derwent WPIX

012198637 **Image available**
WPI Acc No: 1999-004743/199901

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XRPX Acc No: N99-003996

Oil supply apparatus for filling tanker, carrier - has controller recording fuel filling data on number card inserted into card reader cum writer on receiving fuel filling completion signal

Patent Assignee: TATSUNO MECHATRONICS KK (TATS-N) Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 10278998 A 19981020 JP 9799671 A 19970401 199901 B

Priority Applications (No Type Date): JP 9799671 A 19970401

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 10278998 A 6 B67D-005/14

Abstract (Basic): JP 10278998 A

The apparatus has a card reader cum writer (13) provided in a rack (1) to receive the card number signal of a number card (22). A controller (24) receives the hatch number signal of a tanker hatch card (21) inserted into a detector (8), provided in a loading arm (2) and controls the refuelling. The controller, on receiving a fuel filling completion signal, records the fuel filling on the number card inserted into the card reader cum writer.

ADVANTAGE - Eliminates use of **separate** computer in office. Facilitates filling require type of fuel in different hatches. Enables safe operation. Ensures refuelling of correct quantity.

Dwg.1/4

Title Terms: OIL; SUPPLY; APPARATUS; FILL; TANKER; CARRY; CONTROL; RECORD; FUEL; FILL; DATA; NUMBER; CARD; INSERT; CARD; READ; WRITING; RECEIVE; FUEL; FILL; COMPLETE; SIGNAL

Derwent Class: Q39; X22; X25

International Patent Class (Main): B67D-005/14

File Segment: EPI; EngPI

13/5/10 (Item 9 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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011110483 **Image available**
WPI Acc No: 1997-088408/199709
XRPX Acc No: N97-072690

Robotic fuel dispensing device for road vehicles - incorporates filler nozzle and tank filling connection and on filling side has docking location with central through passage

Patent Assignee: MERCEDES-BENZ AG (DAIM); DAIMLERCHRYSLER AG (DAIM)

Inventor: FISCHER A; KREMER A; MUELLER A; SCHMID R; STEINKAEMPER R Number of Countries: 006 Number of Patents: 004 Patent Family: Date Patent No Kind Applicat No Kind Date Week DE 19532775 C1 19970130 DE 1032775 Α 19950905 199709 EP 787614 A2 19970806 EP 96112327 Α 19960731 199736 US 5725033 Α 19980310 US 96706560 Α 19960905 199817 EP 787614 B1 20001122 EP 96112327 Α 19960731 200061 Priority Applications (No Type Date): DE 1032775 A 19950905 Cited Patents: No-SR.Pub Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes DE 19532775 C1 9 B60K-015/05 EP 787614 A2 G 10 B60K-015/04 Designated States (Regional): FR GB IT NL US 5725033 9 B65B-001/04 Α EP 787614 B1 G B60K-015/04 Designated States (Regional): FR GB IT NL Abstract (Basic): DE 19532775 C The docking location with an upper section is rotatable around the symmetry axis for opening and closure of a tank filler socket. The filler gun or nozzle with its outlet side end can be docked in it, forming a positive connection of the filler gun and the docking location . Radially movable positive engagement components (23) are fitted on one of the docking partners (12,13), and are operated hydraulically. The positive engagement components (17) of the other docking partner are rigidly formed, and in them the movable positive engagement components are securable in an axially locking position. USE/ADVANTAGE - Robot fuel dispenser for vehicles is functionally secure and allows hindrance-free docking of the filler gun in the filling connection of the vehicle fuel tank at all times. Dwg.1/4 Title Terms: ROBOT; FUEL; DISPENSE; DEVICE; ROAD; VEHICLE; INCORPORATE; FILL; NOZZLE; TANK; FILL; CONNECT; FILL; SIDE; DOCK; LOCATE; CENTRAL; THROUGH; PASSAGE Derwent Class: Q13; Q17; Q31; Q39 International Patent Class (Main): B60K-015/04; B60K-015/05; B65B-001/04 International Patent Class (Additional): B60S-005/02; B67D-005/37 File Segment: EngPI 13/5/11 (Item 10 from file: 350) DIALOG(R)File 350:Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 011065078 **Image available** WPI Acc No: 1997-043003/199704 XRPX Acc No: N97-035696 Automatic refuelling of vehicle at retail petrol outlet - determining position and orientation of vehicle, moving fuel dispenser adjacent to expected inlet location , determining exact location , and repositioning dispenser Patent Assignee: SHELL OIL CO (SHEL) Inventor: LOEN A E; MUSIL D I; RAMSEY W D; WEST A; WILLIAMS O R Number of Countries: 022 Number of Patents: 009 Patent Family: Patent No Kind Applicat No Kind Week Date Date WO 9639351 A1 19961212 WO 96US7858 Α 19960529 199704 B Α AU 9659376 19961224 AU 9659376 19960529 199715 Α US 5628351 Α 19970513 US 95461280 Α 19950605 199725 Α A1 19980325 EP 96916707 EP 830306 19960529 199816 А WO 96US7858 19960529

AU 698599 19981105 AU 9659376 В Α 19960529 199905 19990615 WO 96US7858 JP 11506715 W Α 199934 19960529 JP 97500786 Α 19960529 EP 830306 В1 19990818 EP 96916707 Α 19960529 199937 WO 96US7858 Α 19960529 DE 69603855 Ε 19990923 DE 603855 Α 19960529 199945 EP 96916707 Α 19960529 WO 96US7858 Α 19960529 ES 2137698 Т3 19991216 EP 96916707 Α 19960529 200006 Priority Applications (No Type Date): US 95461280 A 19950605 Cited Patents: 00 47685800; 05 38350000; 09 40339100; 9406031 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 9639351 A1 E 18 B67D-005/08 Designated States (National): AU CA JP Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE ES 2137698 Т3 B67D-005/08 Based on patent EP 830306 AU 9659376 Α B67D-005/08 Based on patent WO 9639351 US 5628351 7 B65B-001/04 Α A1 E EP 830306 B67D-005/08 Based on patent WO 9639351 Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI NL SE AU 698599 B67D-005/08 Previous Publ. patent AU 9659376 В Based on patent WO 9639351 22 B67D-005/04 Based on patent WO 9639351 JP 11506715 W Based on patent WO 9639351 EP 830306 B1 E B67D-005/08 Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI NL SE DE 69603855 B67D-005/08 Based on patent EP 830306 Ε Based on patent WO 9639351 Abstract (Basic): WO 9639351 A

The automatic refuelling method provides vehicle (107) with RF transponder indicating vehicle fuel inlet position when vehicle is at refuelling location . The position and orientation of the vehicle is determined with its fuel inlet expected location .

A fuel dispenser (108) is moved adjacent to the determined expectant location . A sensor is located on the fuel dispenser which determines the location of the fuel inlet w.r.t. itself. The fuel dispenser is repositioned based on the sensor signal. The vehicle is refuelled.

ADVANTAGE - Significant modifications are not required to vehicle. Appts. is relatively simple and inexpensive. Precise vehicle positioning is not required. Determination of fuel dispenser position by driver is not required.

Dwg.1/1

Title Terms: AUTOMATIC; REFUELLING; VEHICLE; RETAIL; GASOLINE; OUTLET; DETERMINE; POSITION; ORIENT; VEHICLE; MOVE; FUEL; DISPENSE; ADJACENT; INLET; LOCATE; DETERMINE; EXACT; LOCATE; REPOSITION; DISPENSE

Derwent Class: Q31; Q39; X22; X25

International Patent Class (Main): B65B-001/04; B67D-005/04; B67D-005/08

International Patent Class (Additional): B67D-005/04

File Segment: EPI; EngPI

13/5/12 (Item 11 from file: 350) DIALOG(R) File 350: Derwent WPIX

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009855562 **Image available** WPI Acc No: 1994-135418/199416

XRPX Acc No: N94-106450

Abnormal condition detector system for fuel dispensing facility detects type and location of fault and produces printed instructions

for operator to follow.

Patent Assignee: EMCO WHEATON INC (EMCO)

Inventor: TOTH L W; WILSON R D A

Number of Countries: 045 Number of Patents: 002

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 9407792 A1 19940414 WO 93US8842 19930917 199416 B Α AU 9349293 19940426 AU 9349293 199432 Α Α 19930917

Priority Applications (No Type Date): US 92955336 A 19921001 Cited Patents: FR 2604807; US 4630754; US 4774658; WO 8403488 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9407792 A1 26 B67D-005/32

Designated States (National): AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US VN Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE

AU 9349293 A B67D-005/32 Based on patent WO 9407792

Abstract (Basic): WO 9407792 A

The abnormal condition detector system includes a detector for finding abnormal conditions in a fuel tank, fuel dispenser, and fuel line of a fuel dispensing facility. Several electronically stored operator instruction messages include narrative descriptions of operator action when an abnormal condition occurs. A stored instruction is selected when a signal indicating condition type and **location** is received.

The selected instruction is printed along with abnormal condition location information. An operator can then read the printed instruction. The type of abnormal conditions includes several alarm conditions and several trouble conditions. Information on the location of the dispensing facility is also printed.

ADVANTAGE - Suitable for inexperienced operators. Quick. Simple. Improved safety. Reduced risk of environmental damage.

Dwg.3/5

Title Terms: ABNORMAL; CONDITION; DETECT; SYSTEM; FUEL; DISPENSE; FACILITY; DETECT; TYPE; LOCATE; FAULT; PRODUCE; PRINT; INSTRUCTION; OPERATE; FOLLOW Derwent Class: Q39; W05; X25

International Patent Class (Main): B67D-005/32
International Patent Class (Additional): G08B-025/14

File Segment: EPI; EngPI

13/5/13 (Item 12 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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009393728 **Image available**
WPI Acc No: 1993-087195/199311

XRPX Acc No: N93-066689

Dispenser for vehicle fuel - includes gas detector responsive to fuel contained gas, controller operating w.r.t. sensor output and valve dispensing fuel w.r.t. received controller signal

Patent Assignee: GILBARCO LTD (GILB-N)

Inventor: BARTLETT J F; JENNINGS M L; SAXTON J E; DORMER J R;

MASSINGBERD-MUNDY P.D G

Number of Countries: 021 Number of Patents: 010

Patent Family:

Patent No Kind Date Applicat No Kind Date Week EP 532202 A2 19930317 EP 92307782 19920826 199311 À 19930317 GB 9119605 GB 2259497 Α Α 19910913 199311 NO 9203515 19920910 199319 19930315 NO 923515 Α Α HU 62239 Т 19930428 HU 922922 Α 19920911 199322 FI 9204073 Α 19930314 FI 924073 Α 19920911 199324

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EP 532202
              A3 19930714 EP 92307782
                                          A 19920826 199406
GB 2259497
              B 19940622 GB 9119605
                                          A 19910913 199422
US 5363988
              Α
                 19941115 US 92940243
                                          A 19920908 199445
                                          A 19930303
                            US 9326452
EP 532202
              B1 19950607
                           EP 92307782
                                          A 19920826
                                                        199527
DE 69202841
              Ε
                  19950713 DE 602841
                                           A 19920826
                                                        199533
                            EP 92307782
                                          A 19920826
Priority Applications (No Type Date): GB 9119605 A 19910913
Cited Patents: No-SR.Pub; AT 313095; AU 4852272; EP 357513; EP 473818; US
  4611729
Patent Details:
Patent No Kind Lan Pg
                       Main IPC
                                   Filing Notes
EP 532202
             A2 E 9 B67D-005/58
   Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
  NL PT SE
                    9 B67D-005/30
US 5363988
             Α
                                   CIP of application US 92940243
            B1 E 12 B67D-005/58
EP 532202
  Designated States (Regional): AT BE CH DE DK ES FR GR IE IT LI LU MC NL
  PT SE
DE 69202841 E
                     B67D-005/58
                                   Based on patent EP 532202
GB 2259497 A
NO 9203515 A
                     B67D-005/34
                    B67D-005/34
HU 62239
            Т
                    B67D-005/00
FI 9204073
            Α
                    B67D-005/00
EP 532202
            A3
                    B67D-005/58
           В
GB 2259497
                     B67D-005/34
Abstract (Basic): EP 532202 A
       The dispenser includes a gas detector (36) producing an electrical
   signal in dependence upon the presence of gas in fuel flowing through
   the detector, and processor (32) receiving the electrical signal and
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The dispenser includes a gas detector (36) producing an electrical signal in dependence upon the presence of gas in fuel flowing through the detector, and processor (32) receiving the electrical signal and controlling the dispensing of fuel at least in part w.r.t. the received signal. A fuel separator (23) is also provided, includes an inlet receiving fuel, and two outlets. The first outlet (37) is positioned to receive a greater proportion of gas than the second outlet (25), and the gas detector receives fuel from the first outlet, and fuel for dispensing from the second outlet.

Fuel passing through the gas detector is recycled through the separator. Fuel from the second separator outlet passes through a meter (26) before being dispensed. After passing through the detector, fuel flows into a vented reservoir (39).

ADVANTAGE - May be used to reduce/prevent hunting, and has flexible control.

Dwg.4A/4

Title Terms: DISPENSE; VEHICLE; FUEL; GAS; DETECT; RESPOND; FUEL; CONTAIN; GAS; CONTROL; OPERATE; SENSE; OUTPUT; VALVE; DISPENSE; FUEL; RECEIVE; CONTROL; SIGNAL

Derwent Class: Q39; X25

International Patent Class (Main): B67D-005/30; B67D-005/34;

B67D-005/58

International Patent Class (Additional): B67D-005/38; G01F-001/38;

G01N-007/00

File Segment: EPI; EngPI

13/5/14 (Item 13 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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004495811

WPI Acc No: 1985-322689/198551

XRPX Acc No: N85-239577

Improved fuel distribution pump control - is provided by magnetic switch in parallel with existing switch-off guaranteeing full delivery

Patent Assignee: GOSKOMNEFTE PRODS (GOSK-R)

Inventor: KRECHMER V Y A; MAZAEV M P; PUTILIN V V
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week SU 1161456 A 19850615 198551 B

Priority Applications (No Type Date): SU 2993579 A 19801008

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

SU 1161456 A 2

Abstract (Basic): SU 1161456 A

Appts. has pulse-count and local on-off control set on the pump column (1) and **remote** control desk (7) comprising electromagnetic drive mechanism (8), gearing (9) to reader (10) and automatic switch-off (11) of pump (12). **Sensor** of **fuel dispensed** (15) connects to summing device (16) and to mechanism (8).

Normal filling takes place through intermediate relay (14) controlled by pulse sensor (2) on the pump, and operating to magnetic starter (17) giving commands to pump motor (12). Owing to the operation of sensor (2) of counter (3) it is possible for drive mechanism (8) and switch-off device (11) to stop early, before all fuel is delivered. Auxiliary magnetic switch (18) is added to it in parallel, to prevent premature breaking of the circuit before the fill is complete.

USE/ADVANTAGE - For a fuel-metering installation. In aid of accuracy an addition is made of a magnetically-controlled contact in parallel with the automatic shut-off switch. Bul.22/15.6.85

Dwg.1/1

Title Terms: IMPROVE; FUEL; DISTRIBUTE; PUMP; CONTROL; MAGNETIC; SWITCH; PARALLEL; EXIST; SWITCH; GUARANTEE; FULL; DELIVER

Derwent Class: Q39; X25

International Patent Class (Additional): B67D-005/30

File Segment: EPI; EngPI

13/5/15 (Item 14 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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003255015

WPI Acc No: 1982-A9316J/198249

Distributed data processing system for fluid dispensers - has central processing unit for monitoring microprocessors of fluid dispensers while allowing dispensers to operate independently

Patent Assignee: TOKHEIM CORP (TOKH-N)

Inventor: LANGSTON E M; MALECKI R L; MOORE C W
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week US 4360877 A 19821123 198249 B

Priority Applications (No Type Date): US 80138357 A 19800408

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 4360877 A 35

Abstract (Basic): US 4360877 A

The system comprises a digital readout device on each dispenser for displaying information relating to dispensed gallonage and associated cost. A number of **remote** terminals are provided, one for each fuel dispenser, controlling its operation and its digital read out device. A first power supply is operatively connected to each of the **remote** terminals. A CPU-console receives and transmits digital signals which address and control each of the **remote** terminals. A second power

supply is provided for enabling the CPU-console. Each **remote** terminal is operative in response to digital **signals** from its **fuel dispenser** as well as from the CPU-console.

The remote terminals are located adjacent the CPU-console and remote from the fuel dispensers whereby replacement of the CPU-console and each of the remote terminals may be accomplished without dismantling any of the fuel dispensers. Each remote terminal has a microcomputer capable of independent processing of dispnsed gallonage and cost information of its respective dispenser whereby each remote terminal may operate even when the PCU-console is inoperative.

Title Terms: DISTRIBUTE; DATA; PROCESS; SYSTEM; FLUID; DISPENSE; CENTRAL; PROCESS; UNIT; MONITOR; MICROPROCESSOR; FLUID; DISPENSE; ALLOW; DISPENSE; OPERATE; INDEPENDENT

Derwent Class: T01; T05

International Patent Class (Additional): G06F-015/56

File Segment: EPI

File 348: EUROPEAN PATENTS 1978-2004/Feb W03 (c) 2004 European Patent Office File 349:PCT FULLTEXT 1979-2002/UB=20040219,UT=20040212 (c) 2004 WIPO/Univentio ?ds Items Description Set (FUEL OR PETROLEUM OR PETROL) () (DISPENS? OR FILL? ? OR FIL-80 S1LING? OR DISTRIBUT?) (3N) (SENSOR OR SENSORS OR SENSING OR DETE-CTOR? OR SIGNAL? ?) S2 (ROBOTIC? OR AUTOMATE?) (3N) (FUEL OR PETROLEUM OR PETROL) ()-(DISPENS? OR FILL? ? OR FILLING? OR DISTRIBUT?) 21367 (DETECT? OR IDENTIF?) (3N) (AUTO? ? OR AUTOMOBILE? OR AUTOMO-S3 TIVE? OR VEHICLE? OR TRUCK? ? OR MOTOR?() VEHICLE? OR LORRY OR LORRIES OR CAR? ? OR FLEET? OR (AUTO OR MOTOR) () CAR? OR AUTOC-AR? OR MOTORCAR? OR VAN? ?) (REMOTE OR DISTANT? OR SEPARATE? OR LOCATION? OR APART OR -S4 FAR()OFF OR FAR()AWAY OR OFF()SITE? OR OFFSITE? OR REMOVED) S5(5N)(RECEIPT? OR PRINT()OUT? OR ACCOUNTING?) S5 AU=(DICKSON, T? OR DICKSON T ?) S6 0 94 S1 OR S2 S7 · S3 OR ((FILL OR FILLS OR GASES OR FUELS)()UP)(3N)(AUTO? ? -S8 21387 OR AUTOMOBILE? OR AUTOMOTIVE? OR VEHICLE? OR TRUCK? ? OR MOTO-R?() VEHICLE? OR LORRY OR LORRIES OR CAR? ? OR FLEET? OR (AUTO OR MOTOR) () CAR? OR AUTOCAR? OR MOTORCAR? OR VAN) S7(S)S8 S9 3 S7(S) (RECEIPT? OR PRINT()OUT? OR ACCOUNTING?) 3 S10 S11 S10 NOT S9

9/3, K/1(Item 1 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS (c) 2004 European Patent Office. All rts. reserv. 00909328 APPARATUS FOR DISPENSING FUEL AND DETECTING A VEHICLE HAVING A VAPOUR RECOVERY SYSTEM KRAFTSTOFFABGABEVORRICHTUNG MIT MITTELN ZUR **ERKENNUNG** EINES DAMPFRUCKGEWINNUNGSSYSTEMS EINES FAHRZEUGS APPAREIL DE DISTRIBUTION DE CARBURANT ET DE DETECTION D'UN VEHICULE EQUIPE D'UN SYSTEME DE RECUPERATION DES VAPEURS PATENT ASSIGNEE: Marconi Commerce Systems Inc., (570622), 7300 West Friendly Avenue P.O. Box 22087, Greensboro, North Carolina 27420, (US), (Proprietor designated states: all) INVENTOR: HARTSELL, Hal, C., 1060 Winwood Drive, Kernersville, NC 27284, (US) PAYNE, Edward, A., 204 Overman Street, Greensboro, NC 27410, (US) MILLER, Paul, D., 4675 Gallant Lane, Winston-Salem, NC 27101, (US) TUCKER, Mark, B., 8622 Bame Road, Colfax, NC 27235, (US) LEGAL REPRESENTATIVE: Fitchett, Stuart Paul et al (83742), Saunders & Dolleymore European Patent Attorneys 9 Rickmansworth Road, Watford WD18 0JU, (GB) PATENT (CC, No, Kind, Date): EP 958235 A1 991124 (Basic) EP 958235 B1 030205 WO 97044274 971127 APPLICATION (CC, No, Date): EP 97923206 970519; WO 97GB1374 970519 PRIORITY (CC, No, Date): US 649455 960517 DESIGNATED STATES: DE; FR; GB; IT INTERNATIONAL PATENT CLASS: B67D-005/04 NOTE: No A-document published by EPO LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY: Available Text Language Update Word Count CLAIMS B 200306 631 (English) CLAIMS B (German) 200306 622

Available Text Language Update Word Count CLAIMS B (English) 200306 631
CLAIMS B (German) 200306 622
CLAIMS B (French) 200306 848
SPEC B (English) 200306 3629
Total word count - document A 0
Total word count - document B 5730
Total word count - documents A + B 5730

... SPECIFICATION tank.

According to the second aspect the present invention provides apparatus for dispensing fuel and **detecting** a **vehicle** having a vapour recovery system comprising: a fuel dispenser configured to deliver fuel to a...

...fuelling operation and a vapour recovery controller; and a pressure sensor operatively associated with said **fuel dispenser** for **sensing** an increase in vacuum in said vapour recovery path due to a vapour recovery system...

9/3,K/2 (Item 1 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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01074418 **Image available**

VEHICLE FUELING MANAGEMENT SYSTEM

SYSTEME DE GESTION DE REMPLISSAGE DE CARBURANT POUR VEHICULE

Patent Applicant/Assignee:

TOKHEIM CORPORATION, 1600 Wabash Avenue, Fort Wayne, IN 46803, US, US (Residence), US (Nationality), (For all designated states except: US)

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Patent Applicant/Inventor:
  PREWITT Arthur, 7320 North LaCholla #15403, Tucson, AZ 85741, US, US
    (Residence), US (Nationality), (Designated only for: US)
Patent and Priority Information (Country, Number, Date):
                        WO 2003104135 A1 20031218 (WO 03104135)
  Patent:
                        WO 2003IB2850 20030611 (PCT/WO IB0302850)
  Application:
  Priority Application: US 2002388663 20020611
Designated States: CA MX US
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
Publication Language: English
Filing Language: English
Fulltext Word Count: 6084
Fulltext Availability:
  Claims
Claim
... coupling element;
  a data storage device attached to the vehicle;
  a communications assembly for transmitting signals between
  said fuel dispenser and said data storage device prior to
  activation of said pump means, said communications assembly...
...and a second communicating element associated with the vehicle,
  and said signals being representative of vehicle
                                                      identification
  data, operator payment data, and refueling grade data;
  a processor assembly for receiving, processing, and sending
  the signals and controlling fuel
                                      dispensing activity in accordance
  with processing results;
  a data input device for receiving alternative operator
  5...
...fuel dispensing when a sealing
  relationship has been detected, and further, for sending a first
   signal to cease fuel dispensing and a second signal to indicate
  a seal failure to an operator when a sealing relationship has been
  broken...
 9/3, K/3
            (Item 2 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
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00403530
           **Image available**
APPARATUS FOR DISPENSING FUEL AND DETECTING A VEHICLE HAVING A VAPOUR
   RECOVERY SYSTEM
APPAREIL DE DISTRIBUTION DE CARBURANT ET DE DETECTION D'UN VEHICULE EQUIPE
   D'UN SYSTEME DE RECUPERATION DES VAPEURS
Patent Applicant/Assignee:
  GILBARCO LIMITED,
Inventor(s):
 HARTSELL Hal C,
 PAYNE Edward A,
 MILLER Paul D,
 TUCKER Mark B,
Patent and Priority Information (Country, Number, Date):
 Patent:
                       WO 9744274 A1 19971127
                       WO 97GB1374 19970519 (PCT/WO GB9701374)
 Application:
 Priority Application: US 96649455 19960517
Designated States: CA MX AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 4598
```

Fulltext Availability:

Detailed Description Claims

Detailed Description

... to the second aspect the present invention provides apparatus for dispensing fuel 1 5 and **detecting** a **vehicle** having a vapour recovery system comprising: a fuel dispenser configured to deliver fuel to a... fuelling operation and a vapour recovery controller; and a pressure sensor operatively associated with said **fuel dispenser** for **sensing** an increase in vacuum in said vapour recovery path due to a vapour recovery system...

Claim

- ... a vehicle having a vapour recovery system is detected.
 - 10 Apparatus for dispensing fuel and **detecting** a **vehicle** having a vapour recovery system comprising:
 - a fuel dispenser configured to deliver fuel to a...
- ...fuelling operation and a vapour recovery controller; and
 - a pressure sensor operatively associated with said **fuel dispenser** for **sensing** an increase in vacuum in said vapour recovery path due to a vapour recovery system...

(Item 1 from file: 348) 11/3, K/1DIALOG(R) File 348: EUROPEAN PATENTS (c) 2004 European Patent Office. All rts. reserv. 01372012

A fuel dispensing system providing a transaction account to a customer Zapfeinrichtung mit Rechnungsstellung fur Kraftstoff Systeme de distribution de carburant fournissant un recu

PATENT ASSIGNEE:

Marconi Commerce Systems Inc., (3013620), 7300 W. Friendly Avenue, P.O. Box 22087, Greensboro, NC 27420-2087, (US), (Applicant designated States: all)

INVENTOR:

Dickson, Timothy E., 1211 Hounslow Drive, Greensboro, NC 27410, (US) LEGAL REPRESENTATIVE:

Fitchett, Stuart Paul et al (83742), Saunders & Dolleymore European Patent Attorneys 9 Rickmansworth Road, Watford WD18 0JU, (GB) PATENT (CC, No, Kind, Date): EP 1167278 A1 020102 (Basic) APPLICATION (CC, No, Date): EP 2001305428 010622; PRIORITY (CC, No, Date): US 599712 000622 DESIGNATED STATES: DE; FR; GB; IT EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS: B67D-005/24; B67D-005/14; B67D-005/08 ABSTRACT WORD COUNT: 80 NOTE:

Figure number on first page: 4

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Word Count Update CLAIMS A (English) 200201 986 4046 SPEC A (English) 200201 5032 Total word count - document A Total word count - document B Ω Total word count - documents A + B 5032

- ... SPECIFICATION dispenser, without the need for any action by a salesperson or attendant. In fact, totally automated fuel dispensing parks, i.e., with no human operators, are known in the art. Currently undergoing research...
- ...development are a variety of systems for automating fuel dispensing. Sometimes, these systems employ a robotic fuel dispensing mechanism to dispense fuel into the customer's vehicle, obviating the need for manual actuation...
- ...pay for fuel that also includes and communicates the customer's grade selection to the fuel dispenser . However, fully automated fuel delivery systems may still need to perform certain interface functions with the customer such as delivery of a receipt or account of the fueling transaction, and thus may require some input and/or output...
- ...the fuel dispenser housing is particularly advantageous. The invention may be particularly applicable to an automated robot dispenser where the driver does not get out of his vehicle. The provision of a printed receipt is difficult requiring a bulky printer to be located very close to the driver's...

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00514848 **Image available**

DISPENSER WITH RADIO FREQUENCY ON-BOARD VAPOR RECOVERY IDENTIFICATION

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VAPEURS A FREQUENCE RADIOELECTRIQUE
Patent Applicant/Assignee:
  DRESSER INDUSTRIES INC,
  MCCALL Don C,
  TAYLOR Ken W,
Inventor(s):
  MCCALL Don C,
  TAYLOR Ken W,
Patent and Priority Information (Country, Number, Date):
                        WO 9946200 A1 19990916
                        WO 99US4205 19990223 (PCT/WO US9904205)
  Application:
  Priority Application: US 9877801 19980312
Designated States: JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
Publication Language: English
Fulltext Word Count: 5612
Fulltext Availability:
  Claims
Claim
... wherein if the control signal is not received, the disabling mechanism
  does not disable the automated process.
  . A fuel dispenser comprising:
  a vapor recovery system for recovering fuel vapors responsive to a fuel
  being
  dispensed...
...disabling mechanism for preventing the vapor recovery system from
  recovering fuel
  vapors in response to receipt of a disable signal;
  an antenna for detecting a radio frequency signal from a transmitter...
 11/3,K/3
              (Item 2 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
            **Image available**
00413519
UNATTENDED AUTOMATED SYSTEM FOR SELLING AND DISPENSING MOTOR FUEL ACCEPTING
    A VARIETY OF PAYMENT METHODS
SYSTEME AUTOMATIQUE ET SANS SURVEILLANCE DE VENTE ET DE DISTRIBUTION DE
    CARBURANT, ACCEPTANT PLUSIEURS FORMES DE PAIEMENT
Patent Applicant/Assignee:
  VISTA MARKETING GROUP,
Inventor(s):
  FURMAN D Ramsey,
  WILLIAMS James,
Patent and Priority Information (Country, Number, Date):
                        WO 9803980 A1 19980129
  Patent:
                        WO 97US12747 19970716 (PCT/WO US9712747)
  Application:
  Priority Application: US 96685352 19960723
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
  MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
  GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI
  FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 9695
Fulltext Availability:
  Detailed Description
  Claims
Detailed Description
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DISTRIBUTEUR AVEC SYSTEME EMBARQUE D'IDENTIFICATION DE RECUPERATION DE

- ... which issued January 61 1976, discloses an automatic fuel dispenser which is actuated by the **receipt** of either a valid credit card or cash to establish a pre-established dispensing limit...
- ...build up credit for a defined quantity
 of fuel, The system calculates the quantity of fuel
 dispensed by sensing fluid pulses and computes the amount
 of change due the purchaser, if any, Coins are...fuel at a single time
 from a
 single motor fuel dispensero Unattended service stations
 using automated motor fuel dispensers must therefore have
 a limiting feature to comply with such laws, Still
 further, in unattended service stations having automated
 fuel dispensers which accept both cash and credit or debit
 cards, it is desirable to have a...

Claim

... a

fuel pump enabling signal, said fuel pump having means for determining the amount of **fuel dispensed** and generating a **signal** indicative of the quantity of fuel dispensed from said fuel pump; a customer console associated...

- ...the change dispensing means including a currency payout mechanism operable to pay out currency upon **receipt** of a currency dispensing signal from said console controller and a plurality of coin payout...
- ...being operable to payout a coin of preselected denomination from its associated coin supply upon **receipt** of a coin dispensing signal from said console controller; and, system control means operatively linking...